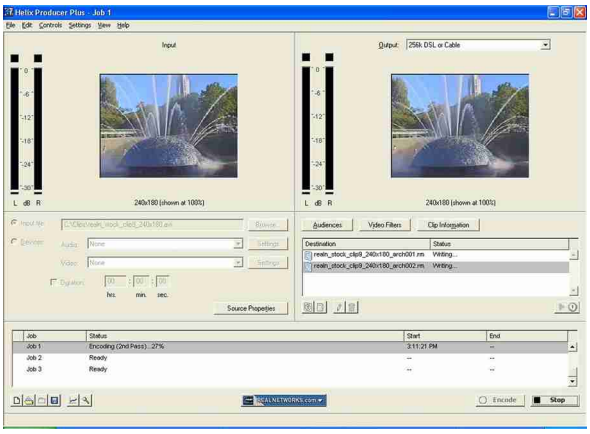
Helix™ Producer from RealNetworks®

UNPARALLED DIGITAL MEDIA PRODUCTION SOFTWARE FOR ENCODING AND BROADCASTING

Helix Producer is the next generation digital media production tool for broadcast streaming and download. It provides robust, reliable and fault-tolerant encoding to convert audio and video into RealMedia™ formats. Using RealMedia Events, Helix Producer can also be used to create synchronized multimedia presentations for playback within the RealOne™ Player. The result creates compelling experiences for dial-up and broadband users, the foundation for successful content services.



Best Quality Video

RealVideo® 9: Delivering Unparalleled Quality
By providing dramatically improved compression over previous generation technologies, RealVideo 9 reduces bandwidth costs while enabling high-quality, rich media experiences — from narrowband to HDTV, at any bit rate and on any device.

- 30% improvement over RealVideo 8; 50% improvement over RealVideo G2
- Same quality at half the bitrate of MPEG-4 and one quarter the bitrate of MPEG-2
- Half-screen video at dial-up bitrates; VHS quality at everyday broadband bitrates (starting at 160 Kbps)
- Wide spectrum of device support, from mobile to PCs and beyond — supports playback on TVs, all HDTV formats and resolutions

Superior pre-processing support
- De-interlace Filter
- Inverse Telecine
- Noise reduction
- Black Level Correction

Advanced Video Optimization
- High-Quality Video Scaling
- Two-pass encoding
- Improved VBR

Best Quality Audio

RealAudio® Surround: Multi-Channel Audio
With as little as 44 Kbps, experience multi-channel audio preserved in embedded conventional surround sound audio created by Dolby Surround or SRS Circle Surround encoders.

- Can deliver 5 channel audio and dedicated subwoofer channel
- Preserves multi-channel audio delivering a home theatre experience
- Surround signals can be decoded by almost all A/V receivers shipped over the past several years, those currently available today, and by computer accessory products for new systems

RealAudio 8: Best Sound at the Broadest Range
Through a strategic alliance with Sony, RealAudio 8 incorporates ATRAC3 high-quality audio compression with low bitrate stereo music codecs providing great quality across a broad range of bitrates.

- Stereo music from 12 Kbps to 352 Kbps
- Same quality at two-thirds the bandwidth of RealAudio G2
- Same quality at half the bitrate of MP3

Advanced Audio Optimization
- Audio Gain Control
- Improved Audio Re-sampling — supports full-resolution, full-spectrum 24-bit, 96 KHz audio

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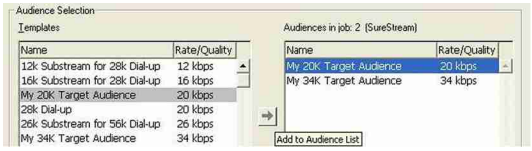
Highly Efficient and Flexible

Helix Producer Plus from RealNetworks provides an updated user interface that provides easy access to encoding controls and an at-a-glance view of active and pending encoding jobs from the main window.



Select default and customized Target Audiences for each encoding job

New features allow encoding settings to be saved and shared to create standardized, consistent output. Other productivity features include:

View status of all jobs in each encoding session

- Batch Processing — queues multiple encoding jobs to execute sequentially
- Audience and Server Templates and Job Files allow users to keep, reuse and share frequently used encoding settings
- Configurable SureStream™ Encoding — ensures complete control over bitrate streams to save bandwidth and reduce file size
- Unlimited Target Audiences
- Firewire (IEEE 1394) live capture support
- WDM capture support — supports capture devices utilizing WDM and VFW drivers
- Enhanced Multiprocessor Encoding — takes advantage of multiple processors for single-rate and SureStream encoding
- Multiple Destination Support — Allows multiple files and/or servers to receive encoded output
- File to Server live broadcast

Robust, Reliable, and Fault Tolerant

Troubleshooting and Error Correction

- Log Files — diagnostic, informational, warning and error messages saved to file for troubleshooting and analysis
- Log Viewer — displays log messages real-time during encoding sessions
- Forward Error Correction — encoder resends additional packets at preset intervals to ensure against dropped packets along lossy networks
- Loss protection — additional information sent in each packet to enable RealOne Player to reconstruct missing frames in the event of packet loss
- Independent output — separate processes maintained for output sent to multiple file and/or server destinations
- RealMedia File Rollover — creates new RealMedia file if output file exceeds 4 GB (Windows)

Advanced Broadcasting Functionality

- Server Reconnect — encoded data stream automatically reconnects to Server if initial push connection is lost
- Multicast — single broadcast stream is simultaneously sent to multiple servers to conserve bandwidth while increasing redundancy and scalability
- Pull Broadcasting — allows servers to proactively connect to encoder after a player has requested a media stream
- Connectionless UDP Transport — one way data transmission

Contact RealNetworks Today

To learn more about Helix Producer from RealNetworks and the Helix Producer Software Development Kit (SDK), go to www.realnetworks.com/products/producerplus/index.html. To contact a sales representative, call 1-800-444-8011 or email sales@real.com